
U.S. Department of the Interior • U.S. Geological Survey

MINERAL INDUSTRY SURVEYS

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COPPER IN FEBRUARY 1997

Owing to the shortness of the February reporting period, monthly mine, smelter and refinery production all declined from the levels of the previous month. However, mine and refinery production were 2% and 4%, respectively, above February 1996 levels, reflecting increasing production from projects initiated in 1996. Several new projects, which had been previously slated for startup in 1997, have been either delayed or abandoned. Great Lakes Minerals Inc., Toronto, Canada, abandoned its plans to develop the 543-S deposit in Montana. The economic feasibility of the project was based on shipping ore to the Copper Range Co. concentrator at White Pine, MI. Great Lakes could not justify building a concentrator at the 543-S deposit and the project became uneconomic with closure of the White Pine Mine and concentrator in 1995. Arimetco International Inc. is delaying startup of its Sullivan, NV, project and has reduced expansion expectations at its Yerington, NV, project. Cambior Inc., which had completed a feasibility study in 1993 for its Carlotta project in Arizona, does not expect to complete permitting and begin construction until the second half of 1997 (Cambior Inc., 1997).

Despite a slight rise in both domestic exchange (Comex and LME) and global exchange warehouse inventories, copper prices in February were at the highest average monthly level in 8 months. In the United States, consumption of refined copper remained strong with consumption for the first 2 months of the year 10% higher than that of the equivalent period of 1996. As a result, Comex prices, which had traded at a discount to LME prices in January, rose to average more than 3 cents per pound more than LME prices during the last week of February. Copper prices continued to strengthen in March, the Comex spot price averaging \$1.148 for the month and peaking at \$1.195 on March 25. However, following announcement by the Federal Reserve Board of a raise in interest rates, copper prices, along with those for other major nonferrous metals, softened, the spot Comex copper price averaging \$1.097 for April.

Reference Cited

Cambior Inc., 1997, Cambior annual report 1996: Montreal, Canada, 56p.

TABLE 1
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES 1/

(Metric tons, unless noted)

	Source table 2/	1996 p/	1997		January- February
			January	February	
Production:					
Primary:					
Mine, recoverable	(2)	1,910,000	158,000	144,000	302,000
Smelter 3/	(3)	1,290,000	118,000 r/	111,000	229,000
Refinery:					
Electrolytic:					
Domestic	(4)	1,290,000	114,000 r/	114,000	228,000
Foreign	(4)	146,000	8,240	7,520	15,800
Electrowon	(4)	574,000	47,900	43,100	91,100
Total	(4)	2,010,000	170,000 r/	165,000	334,000
Secondary recoverable copper:					
Refineries	(5)	327,000	35,900 r/	30,000	65,900
Ingot makers 4/	(5)	124,000	10,300	10,300	20,700
Brass and wire-rod mills	(5)	719,000	64,900 r/	61,300	126,000
Foundries, etc.	(5)	62,400	5,200	5,200	10,400
Consumption:					
Total apparent	(8)	2,900,000	250,000	NA	NA
Refined (reported)	(7)	2,630,000	239,000	225,000	464,000
Purchased copper-base scrap	(9)	1,640,000 r/	144,000 r/	144,000	288,000
Stocks at end of period:					
Total refined	(11)	145,000	151,000	154,000	XX
Blister, etc.	(11)	173,000	168,000 r/	173,000	XX
Prices:					
U.S. producer cathode (cents per pound)	(12)	109.044	111.949	113.564	112.757
Imports:					
Ores and concentrates 5/	(14)	72,400	13	NA	NA
Refined	(14)	543,000 r/	55,400	NA	NA
Exports:					
Ores and concentrates 5/	(15)	195,000	3,790	NA	NA
Refined	(15)	170,000	11,100	NA	NA

p/ Preliminary. r/ Revised. NA Not available. XX Not applicable.

1/ Data are rounded to three significant digits, except prices; may not add to totals shown.

2/ Numbers in parentheses refer to the detailed tables where these data are located.

3/ From domestic and foreign ores.

4/ 1996 and 1997 monthly data estimated based on 1995 monthly average.

5/ Copper content.

TABLE 2
MINE PRODUCTION OF RECOVERABLE COPPER
IN THE UNITED STATES 1/

(Metric tons)

Period	State		Total
	Arizona	Others 2/	
1996: p/			
February	93,000	47,900	141,000
March	108,000	55,800	164,000
April	103,000	53,900	157,000
May	107,000	53,700	161,000
June	106,000	56,100	163,000
July	104,000	57,400	161,000
August	106,000	58,900	165,000
September	99,900	58,200	158,000
October	105,000	59,300	164,000
November	102,000	55,000	157,000
December	104,000	60,800	165,000
Jan. - Feb.	197,000	98,400	296,000
Year total	1,240,000	667,000	1,910,000
1997:			
January	97,900 r/	59,800	158,000
February	89,900	54,100	144,000
Jan. - Feb.	188,000	114,000	302,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes production from Idaho, Illinois, Missouri, Montana, Nevada, New Mexico, Utah, and Wisconsin.

TABLE 3
COPPER 1/ PRODUCED AT SMELTERS IN THE UNITED STATES, BY SOURCE 2/

(Metric tons, copper content)

Period	Domestic and foreign ores	Scrap	Total
1996: p/			
February	109,000	28,800	138,000
March	104,000	30,200	134,000
April	105,000	28,200	133,000
May	97,600	27,400	125,000
June	105,000	29,300	134,000
July	105,000	30,500	136,000
August	97,200	29,100	126,000
September	113,000	27,800	140,000
October	117,000	28,700	146,000
November	110,000	27,200	137,000
December	115,000	31,900	146,000
Jan. - Feb.	224,000	56,200	280,000
Year total	1,290,000	347,000	1,640,000
1997:			
January	118,000 r/	28,100	146,000 r/
February	111,000	26,600	137,000
Jan. - Feb.	229,000	54,800	283,000

p/ Preliminary. r/ Revised.

1/ Includes blister, anode and black copper from primary or secondary sources.

2/ Data are rounded to three significant digits; may not add to totals shown.

TABLE 4
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY 1/

(Metric tons)

Period	Primary materials				Scrap			Total refined
	Electrolytically refined 2/		Electrowon	Total	Electro-lytically refined 2/	Fire refined	Total	
	Domestic 3/	Foreign						
1996: p/								
February	103,000	14,800	43,500	161,000	13,700	12,800	26,400	187,000
March	107,000	14,400	45,900	168,000	14,200	14,000	28,200	196,000
April	110,000	14,800	47,400	173,000	14,200	10,400	24,700	197,000
May	107,000	13,900	50,700	172,000	16,900	12,700	29,600	201,000
June	94,600	9,430	48,300	152,000	17,300	13,700	30,900	183,000
July	113,000	10,600	48,200	172,000	18,100	6,310	24,400	196,000
August	102,000	12,000	47,100	161,000	14,000	11,000	25,000	186,000
September	105,000	12,700	45,900	163,000	12,900	13,900	26,800	190,000
October	122,000	9,190	51,600	183,000	17,200	13,500	30,600	213,000
November	105,000	10,100	47,800	163,000	15,000	10,900	25,900	189,000
December	113,000	8,240	49,700	171,000	18,500	7,800	26,300	198,000
Jan. - Feb.	215,000	30,600	91,000	337,000	28,000	26,200	54,200	391,000
Year total	1,290,000	146,000	574,000	2,010,000	186,000	140,000	327,000	2,340,000
1997:								
January	114,000 r/	8,240	47,900	170,000 r/	24,500 r/	11,500	36,000 r/	206,000
February	114,000	9,050	43,100	166,000	18,000	12,000	30,000	196,000
Jan. - Feb.	228,000	17,300	91,100	336,000	42,400	23,500	65,900	402,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Based on source of material at smelter level.

3/ Includes fire-refined copper.

TABLE 5
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASED SCRAP 1/

(Metric tons, copper content)

Period	Refineries 2/		Ingot makers 3/		Brass and wire-rod mills		Foundries, etc. 4/		Total 5/
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
1996: p/									
February	9,790	16,600	2,890	7,440	54,000	2,980	2,240	2,960	99,000
March	11,100	17,200	2,890	7,440	57,600	2,660	2,240	2,960	104,000
April	8,200	16,500	2,890	7,440	57,400	4,240	2,240	2,960	102,000
May	10,000	19,600	2,890	7,440	60,100	4,230	2,240	2,960	109,000
June	10,900	20,000	2,890	7,440	58,700	4,960	2,240	2,960	110,000
July	6,010	18,400	2,890	7,440	50,100	3,880	2,240	2,960	93,900
August	8,310	16,700	2,890	7,440	55,600	3,870	2,240	2,960	100,000
September	10,300	16,500	2,890	7,440	55,000	3,850	2,240	2,960	101,000
October	10,900	19,800	2,890	7,440	56,300	3,640	2,240	2,960	106,000
November	8,730	17,200	2,890	7,440	54,200	4,580	2,240	2,960	100,000
December	5,750	20,600	2,890	7,440	53,600	4,410	2,240	2,960	99,900
Jan. - Feb.	20,900	33,300	5,780	14,900	113,000	6,340	4,480	5,930	205,000
Year total	111,000	216,000	34,700	89,200	672,000	46,700	26,900	35,600	1,230,000
1997:									
January	10,800 r/	25,200 r/	2,890	7,440	61,500 r/	3,340	2,240	2,960	116,000 r/
February	10,600	19,400 r/	2,890	7,440	60,100	1,170	2,240	2,960	107,000
Jan. - Feb.	21,300	44,600	5,780	14,900	122,000	4,510	4,480	5,930	223,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Electrolytically refined and fire-refined scrap based on source of material at smelter level.

3/ Data no longer collected monthly; 1995 and 1996 data estimated based on 1995 annual data.

4/ Estimate based on 1995 annual data.

5/ Does not include an estimate, based on reported 1995 data, of 3,100 tons per month from new scrap and 2,330 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD MILL SEMIFABRICATES 1/

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire rod mills	Brass mills	Wire rod mills	Brass mills	Wire rod mills
1996: p/						
February	128,000	153,000	130,000	157,000	48,800	63,500
March	144,000	171,000	142,000	160,000	51,300	74,300
April	131,000	157,000	133,000	175,000	49,400	55,800
May	130,000	173,000	129,000	165,000	51,000	63,200
June	131,000	163,000	126,000	151,000	55,200	75,200
July	111,000	139,000	114,000	152,000	52,200	62,900
August	130,000	142,000	132,000	156,000	50,300	48,500
September	135,000	163,000	136,000	158,000	49,300	53,200
October	139,000	180,000	139,000	184,000	49,400	50,100
November	135,000 r/	176,000	134,000	171,000	50,700 r/	55,000
December	114,000 r/	155,000	113,000	143,000	52,000 r/	66,500
Jan. - Feb.	248,000	298,000	252,000	303,000	XX	XX
Year total	1,550,000	1,920,000	1,550,000	1,920,000	XX	XX
1997:						
January	134,000 r/	178,000	135,000 r/	183,000	51,500	61,300
February	132,000	169,000	132,000	163,000	51,500	67,200
Jan. - Feb.	266,000	347,000	267,000	346,000	XX	XX

p/ Preliminary. r/ Revised. XX Not applicable.

1/ Data are rounded to three significant digits; may not add to totals shown.

TABLE 7
CONSUMPTION OF REFINED COPPER 1/

(Metric tons)

Period and item	Wire rod mills	Brass mills 2/	Other plants 3/	Total
1996: p/				
February	165,000	47,200	4,630	216,000
March	181,000	56,400	4,630	242,000
April	162,000	47,500	4,630	214,000
May	184,000	47,500	4,630	236,000
June	164,000	49,400	4,630	218,000
July	147,000	41,900	4,630	193,000
August	154,000	50,100	4,630	209,000
September	162,000	55,600	4,630	222,000
October	185,000	54,100	4,630	244,000
November	177,000	47,200	4,630	229,000
December	150,000	46,900	4,630	201,000
Jan. - Feb.	318,000	92,300	9,270	420,000
Year total	1,980,000	589,000	55,600	2,630,000
1997:				
January	179,000	55,000 r/	4,630	239,000
February:				
Cathodes	172,000	27,400	1,120	200,000
Wire bars	--	W	W	W
Ingots and ingot bars	--	1,670	1,660	3,330
Cakes and slabs	--	8,720	W	8,720
Billets and other	--	10,800	1,860	12,700
Total	172,000	48,600	4,630	225,000
Jan. - Feb.	351,000	104,000	9,270	464,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Billets and other."

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ In 1995, brass mills consumed 2,210 tons of refined lead, 706 tons of pig tin, 3,870 tons of refined nickel, and 64,100 tons of slab zinc.

3/ Monthly consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers; estimated based on 1995 annual data.

TABLE 8
U.S. APPARENT CONSUMPTION OF COPPER 1/

(Metric tons)

Period	Refined copper production	Copper in old scrap 2/	Net refined imports	Stock change during period	Apparent consumption
1996: p/					
February	161,000	32,300	24,800	(21,400)	239,000
March	168,000	32,600	35,500	(7,120)	243,000
April	173,000	33,400	37,300	10,800	232,000
May	172,000	36,500	46,000	(26,400)	281,000
June	152,000	37,700	33,900	(7,400)	231,000
July	172,000	35,000	38,000	23,300	222,000
August	161,000	33,300	47,100	(6,660)	248,000
September	163,000	33,100	47,800	(13,100)	257,000
October	183,000	36,100	29,700	(4,510)	253,000
November	163,000	34,500	49,100	(14,400)	261,000
December	171,000	37,700	31,300	20,500	220,000
Jan. - Feb.	337,000	65,100	54,200	7,180	449,000
Year total	2,010,000	415,000	450,000	(17,800)	2,900,000
1997:					
January	170,000 r/	41,300	44,300	5,820	250,000
February	165,000	33,300	NA	2,400	NA
Jan. - Feb.	334,000	74,500	NA	8,220	NA

p/ Preliminary. r/ Revised. NA Not available.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes reported monthly production of copper from old scrap of copper-base and of non-copper-base materials and estimates for annual reporters based on 1995 data.

TABLE 9
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers 2/		Brass and wire-rod mills 3/		Foundries, etc. e/		Total scrap used
	New scrap 2/	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
1996: p/									
February	10,700	28,200	3,870	11,300	68,200	3,830	2,570	3,390	132,000
March	11,700	32,200	3,870	11,300	72,300	3,570	2,570	3,390	141,000
April	9,680	26,800	3,870	11,300	71,900	5,000	2,570	3,390	134,000
May	10,800	31,400	3,870	11,300	75,500	5,100	2,570	3,390	144,000
June	13,200	36,300	3,870	11,300	73,200	5,990	2,570	3,390	150,000
July	8,120	27,900	3,870	11,300	63,800	4,790	2,570	3,390	126,000
August	10,000	28,300	3,870	11,300	70,700	4,880	2,570	3,390	135,000
September	12,700	27,000	3,870	11,300	69,100	5,010	2,570	3,390	135,000
October	11,600	33,500	3,870	11,300	71,600	4,510	2,570	3,390	142,000
November	10,700	29,000	3,870	11,300	67,900 r/	5,530	2,570	3,390	134,000 r/
December	7,700	31,700	3,870	11,300	66,100 r/	5,400	2,570	3,390	132,000 r/
Jan. - Feb.	23,200	54,800	7,730	22,600	142,000	7,930	5,140	6,770	271,000
Year total	130,000	359,000	46,400	136,000	845,000 r/	57,700	30,800	40,600	1,640,000 r/
1997:									
January	12,400	29,200	3,870	11,300	77,800 r/	3,420	2,570	3,390	144,000 r/
February	14,500	30,700	3,870	11,300	76,300	1,240	2,570	3,390	144,000
Jan. - Feb.	26,900	60,000	7,730	22,600	154,000	4,660	5,140	6,770	288,000

e/ Estimated. p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Data for 1996 and 1997 are estimated from 1995 annual data.

3/ Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/ 2/

(Metric tons, gross weight)

Scrap type and processor	1996 p/			1997		
	Jan. - Feb.	December	Year total	January	February	Jan. - Feb.
No. 1 wire and heavy:						
Smelters, refiners and ingot makers	25,500	8,400	147,000	12,000	12,800	24,800
Brass and wire-rod mills	59,800 r/	28,600 r/	355,000 r/	33,300 r/	29,400	62,700
No. 2 mixed heavy and light:						
Smelters, refiners and ingot makers	31,900	20,600	215,000	18,400	23,200	41,600
Brass and wire-rod mills	5,580 r/	2,220	34,600	3,070	3,340	6,410
Total unalloyed scrap:						
Smelters, refiners and ingot makers	57,400	29,000	362,000	30,400	36,000	66,400
Brass mills	65,400 r/	30,800 r/	390,000 r/	36,400 r/	32,700	69,100
Red brass: 3/						
All plants	11,000 r/	5,500 r/	66,200 r/	5,690 r/	5,440	11,100
Leaded yellow brass:						
All plants	63,700 r/	29,900 r/	395,000 r/	35,700	35,900	71,500
Yellow and low brass:						
Smelters, refiners and ingot makers	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
Brass mills	9,510 r/	3,330 r/	52,000 r/	3,240 r/	3,330	6,570
Cartridge cases and brass:						
Smelters, refiners and ingot makers	--	--	--	--	--	--
Brass mills	8,350 r/	4,430 r/	45,700 r/	4,320 r/	4,490	8,810
Auto radiators:						
Smelters, refiners and ingot makers	12,200	6,080	73,000	6,080	6,080	12,200
Bronzes:						
Smelters, refiners and ingot makers	--	--	--	--	--	--
Brass mills	1,980	999	11,200	1,050	1,100	2,140
Nickel-copper alloys:						
Smelters, refiners and ingot makers	--	--	--	--	--	--
Brass mills	4,000	1,070 r/	20,500 r/	1,620 r/	1,260	2,880
Low grade & residues:						
Smelters, refiners and ingot makers	14,800	7,240	88,800	7,520	5,820	13,300
Other alloy scrap: 5/						
Smelters, refiners and ingot makers	6,440	3,560	41,400	3,960	3,790	7,750
Brass mills	715	347	4,440	326	392	718
Total alloyed scrap:						
Smelters, refiners and ingot makers	51,000	25,700	309,000	26,400	24,500	50,800
Brass mills	85,000 r/	40,700 r/	512,000 r/	44,800 r/	44,800	89,600
Total scrap:						
Smelters, refiners and ingot makers	108,000	54,600	671,000	56,800	60,500	117,000
Brass and wire-rod mills	150,000 r/	71,500 r/	902,000 r/	81,200 r/	77,500	159,000

p/ Preliminary. r/ Revised.

1/ Does not include: consumption by foundries, chemical plants and miscellaneous manufacturers, estimated to total about 6,000 tons of scrap per month in 1995; consumption of home scrap at brass mills which averaged 57,200 tons per month in 1995. Includes estimates of about 30,000 tons of scrap per month consumed by ingot makers and several smelters that report only on an annual basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Includes composition turnings, silicon bronze, zinc bronze, railroad car boxes, cocks and faucets, gilding metal and commercial bronze.

4/ Withheld to avoid disclosing company proprietary data; included in "Other alloy scrap."

5/ Includes refinery brass, beryllium copper, phosphor copper and aluminum bronze.

TABLE 11
COPPER STOCKS AT END OF PERIOD 1/

(Metric tons)

Period	Crude copper 2/	Refined copper					LME 6/	Total refined
		Refineries 3/	Wire rod mills 3/	Brass mills 3/	Other 4/	Comex 5/		
1996: p/								
February	177,000	31,700	22,600	11,200	3,540	11,700	89,600	170,000
March	153,000	33,800	19,500	9,820	3,540	12,600	84,000	163,000
April	171,000	35,600	25,500	11,300	3,540	18,800	79,400	174,000
May	166,000	35,500	19,200	9,840	3,540	12,000	67,500	148,000
June	162,000	33,500	13,100	12,700	3,540	6,880	70,400	140,000
July	154,000	41,700	29,700	13,700	3,540	16,100	58,700	164,000
August	159,000	34,000	25,800	13,800	3,540	20,100	59,600	157,000
September	161,000	32,400	19,400	12,800	3,540	19,700	56,000	144,000
October	163,000	33,900	31,000	13,200	3,540	28,600	29,200	139,000
November	167,000	32,200	30,600	11,600	3,540	26,000	20,900	125,000
December	173,000	32,200	32,100	12,700	3,540	26,600	38,300	145,000
1997:								
January	168,000 r/	30,200 r/	28,000	13,100 r/	3,540	16,700	59,800	151,000
February	173,000	33,000	22,300	13,000	3,540	22,500	59,300	154,000

p/ Preliminary. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Copper content of blister and other materials in transit and in process of refining.

3/ Stocks of refined copper as reported; no estimates are made for non-respondents.

4/ Monthly estimates based on reported and 1995 annual data, comprising stocks at secondary smelters, chemical plants, foundries, and miscellaneous manufacturers.

5/ Commodity Exchange Inc., New York.

6/ London Metal Exchange Ltd., U.S. warehouses.

TABLE 12
AVERAGE PRICE OF COPPER IN THE UNITED STATES AND
ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price		Comex first position 3/	LME cash price Grade A
	Cathode 1/	Wirebar 2/		
1996:				
February	120.020	128.668	116.668	115.077
March	121.540	130.200	118.200	116.140
April	122.628	131.286	119.286	117.707
May	126.667	135.327	123.327	120.527
June	107.828	116.538	104.488	98.447
July	94.007	102.693	90.667	90.006
August	95.479	104.139	92.139	91.072
September	93.848	102.623	90.508	88.026
October	96.873	105.533	93.533	88.935
November	104.097	112.776	100.776	101.149
December	104.114	114.781	102.781	102.837
Average	109.044	117.888	105.872	104.045
1997:				
January	111.949	120.054	108.291	110.417
February	113.564	122.224	110.224	109.081
Average	112.757	121.139	109.258	109.749

1/ Listed as "U.S. producer cathode."

2/ Listed as "Electrolytic wirebar (Warrenton Refining Co.)."

3/ Listed as "Comex high grade first position."

Sources: Platt's Metals Week and American Metal Market.

TABLE 13
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 scrap	Red brass turnings and borings
1996:				
February	111.85	93.83	89.75	57.00
March	113.06	96.54	92.53	57.66
April	114.20	96.99	84.43	58.00
May	116.25	97.10	84.59	57.84
June	96.95	83.00	77.85	55.35
July	88.58	69.76	64.43	46.79
August	90.85	73.93	64.00	46.09
September	88.69	72.56	64.00	46.00
October	89.21	73.04	64.00	46.00
November	97.04	79.22	64.63	46.63
December	99.17	81.94	65.00	47.00
Average	101.53	84.42	75.27	51.85
1997:				
January	99.29	81.49	66.13	47.57
February	106.74	87.80	67.42	48.21
Average	103.02	84.65	66.78	47.89

Source: American Metal Market.

TABLE 14
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

Country or territory	Ore and concentrate		Matte, ash and precipitates		Blister and anodes		Refined	
	1997		1997		1997		1997	
	1996	Jan.	1996	Jan.	1996	Jan.	1996	Jan.
Brazil	--	--	--	--	--	--	15,600	--
Canada	9,000	--	236	17	80,200 2/	6,870	278,000 2/	23,500
Chile	59,800	--	--	--	51,700	3,870	119,000	13,600
Germany	--	--	--	--	--	--	9,960	(3/)
Japan	--	--	--	--	(3/)	--	3,940	1,640
Kazakstan	--	--	--	--	--	--	2,630	1,550
Malaysia	--	--	79	--	--	--	--	--
Mexico	3,680	--	2,050	61	19,600	988	30,300	1,440
Peru	--	--	--	--	9,550	1,500	64,700	14,200
Russia	--	--	--	--	--	--	15,000	4
Spain	--	--	--	--	2,710	554	--	--
Taiwan	--	--	24	11	--	(3/)	(3/)	--
Venezuela	--	13	--	--	--	--	--	--
Other	3	--	2	--	649	--	4,420 r/	29
Total	72,400	13	2,390	90	164,000 2/	13,800	543,000 2/	55,400

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Data revised to correct the misclassification of 76,400 tons of refined copper as copper anode.

3/ Less than 1/2 unit.

Source: Bureau of the Census, data adjusted by the U.S. Geological Survey.

TABLE 15
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

Country or territory	Ore and concentrate		Matte, ash and precipitates		Blister and anodes		Refined	
	1997		1997		1997		1997	
	1996	Jan.	1996	Jan.	1996	Jan.	1996	Jan.
Belgium	--	--	3	71	239	--	46	--
Brazil	2,810	--	5	--	--	--	25	--
Canada	79,900	3,790	31,500	1,370	18,000	1,410	28,700	3,490
China	54,500	--	2	--	44	--	233	--
Costa Rica	--	--	12	--	--	--	3	127
France	--	--	--	--	17	33	145	15
Germany	76	--	1	--	463	--	189	--
Hong Kong	16	--	29	--	1,170	699	525	47
Italy	8	--	2	--	451	133	2,150	--
Japan	47,600	--	2,130	19	456	125	31,900	2,590
Korea, Republic of	1,570	--	19	--	1,100	176	3,480	495
Malaysia	--	--	--	--	(2/)	--	6,470	--
Mexico	2,340	--	2,790	1,160	410	36	11,800	349
Nigeria	--	--	71	33	--	--	--	--
Singapore	--	--	8	--	44	52	2,690	636
Spain	2,800	--	6	--	15	--	7	--
Taiwan	--	--	--	--	330	439	54,100	2,210
Thailand	--	--	--	--	112	22	26,400	989
Other	3,550	--	484 r/	72	391 r/	30	900	119
Total	195,000	3,790	37,100	2,730	23,200	3,160	170,000	11,100

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 16
U.S. COPPER SCRAP TRADE 1/

(Metric tons, gross weight)

Country or territory	Imports				Exports			
	Unalloyed		Alloyed		Unalloyed		Alloyed	
	1996	1997 Jan.	1996	1997 Jan.	1996	1997 Jan.	1996	1997 Jan.
Belgium	--	--	33	--	9,380	136	1,440	29
Canada	40,500	5,170	57,700	4,540	104,000	9,440	41,900	3,680
Chile	11,800	1,190	178	--	--	--	5	--
China	--	--	79	--	12,600	701	24,900	2,020
Colombia	668	70	3,020	42	--	--	3	--
Costa Rica	1,320	85	386	19	--	--	--	--
Dominican Republic	603	94	1,940	86	--	--	--	--
Germany	4	1	122	--	7,190	99	5,290	179
Honduras	275	61	1,040	105	--	--	--	--
Hong Kong	--	--	120	--	28,600	1,850	43,200	1,140
India	--	--	--	--	3,960	20	29,800	2,350
Japan	2	--	83	17	19,300	1,620	18,700	1,610
Korea, Republic of	--	--	18	--	5,140	290	11,200	828
Mexico	27,900	1,460	42,400	3,060	2,470	79	4,030	235
Netherlands Antilles	5	18	290	138	--	--	--	--
Panama	1,020	131	1,100	36	--	--	--	--
Switzerland	--	--	--	17	2,760	--	18	--
Taiwan	102	3	1,480	269	1,340	91	4,970	166
Thailand	--	--	36	--	37	--	2,460	132
United Kingdom	(2/)	--	1,310	--	194	--	381	19
Venezuela	2,600	212	2,540	230	--	--	40	--
Other	3,560 r/	230	7,950 r/	607	673 r/	22	6,980 r/	332
Total	90,300	8,730	122,000	9,170	197,000	14,300	195,000	12,700

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.